HP Intel Xeon E5-2420 processor 1.9 GHz 15 MB L3

Brand : HP

Product code: 660660-B21

Product name : Intel Xeon E5-2420

Intel Xeon E5-2420 (15M Cache, 1.90 GHz, 7.20 GT/s)

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Reduce Latency, Improve Data Throughput with Intel® Integrated I/O
Intel® Integrated I/O merges the I/O controller onto the processor for reduced latency.

For data center servers or cloud, new Intel® Xeon® processors combine flexibility with efficiency.

Intel® Xeon® processors and Intel® SSDs boost performance, enhancing AutoCAD 2013's new workflow.

Rigorous Intel® Xeon® processor family tests track performance and efficiency in IT@Intel design center.

Three-minute video highlighting key innovations in the Cisco UCS M3 line based on Intel® Xeon® processor E5 family.

Five-minute video addressing key innovations of the Cisco UCS M3 line based on Intel® Xeon® processor E5 family.

Processor	
Processor model *	E5-2420
Processor base frequency *	1.9 GHz
Processor family *	Intel® Xeon® E5 Family
Processor cores *	6
Processor socket *	LGA 1356 (Socket B2)
Component for	Server/workstation
Processor lithography *	32 nm
Processor threads	12
System bus rate	7.2 GT/s
Processor operating modes *	64-bit
Processor boost frequency	2.4 GHz
Processor cache	15 MB
Processor cache type	L3
Thermal Design Power (TDP)	95 W
VID Voltage Range	0.60 - 1.35 V
Stepping	C2
Bus type	QPI
Number of QPI links	1
Memory bandwidth supported by processor (max)	32 GB/s

Memory	
Maximum internal memory supported by processor	375 GB
Memory types supported by processor	DDR3-SDRAM
Memory clock speeds supported by processor	800,1066,1333 MHz
Memory channels *	Triple-channel
ECC	✓

Graphics	
On-board graphics card *	✗

Features	
Execute Disable Bit	✓

Features	
Idle States	✓
Thermal Monitoring Technologies	✓
Market segment	Server
PCI Express slots version	3.0
Supported instruction sets	AVX
CPU configuration (max)	2

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Turbo Boost Technology	✓
Intel Flex Memory Access	✓
Intel® AES New Instructions (Intel® AES-NI)	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel Demand Based Switching	✓
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel® vPro™ Platform Eligibility	✓

Weight & dimensions	
Processor package size	42.5 mm

Other features	
Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x

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